



15 July 2003 *We put the "Sea" in Seabee*



# Mission History Organization

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# Mission

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- Ship-to-shore movement of combat equipment, ammunition and supplies
- Installation and operation of ship-to-shore bulk fuel and water systems
- Camp Support
- *“Forward from the surf”* Defense/Force Protection

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# History

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- Commissioned at Camp Endicott, RI in 1943 as the 104th Naval Construction Battalion
- Moved to Coronado California in 1947
- Designated ACB-1 in 1950



# History

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- World War II:
  - Pontoon Barge operations
  - New Guinea, Australia, Philippines
- Korean War:
  - Invasion of Inchon
  - Presidential Unit Citation
  - Korean Presidential Unit Citation
  - Three Bronze Stars
  - Eight Navy Commendations with Combat "V"

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# History, continued

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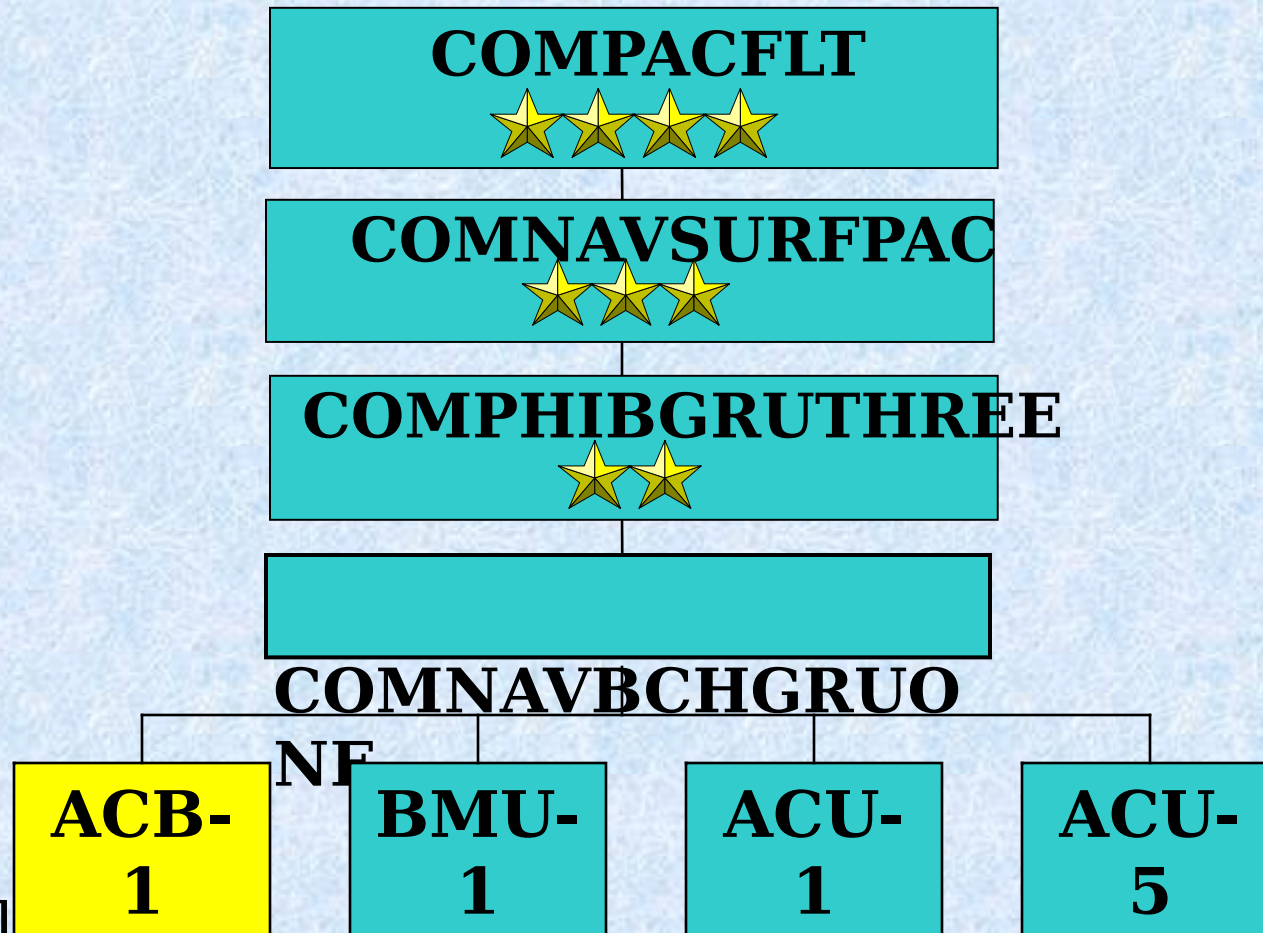
- Vietnam Conflict:
  - Causeway piers, fuels systems/buoys, ammo barges
    - Chu Lai - Da Nang
    - Hue - Cua Viet
- Persian Gulf War:
  - Desert Shield 1990
  - First Naval Construction Force unit in region; offloaded MPF for I MEF ground campaign
  - Valiant Warrior (1994) & Vigilant Sentinel (1995): again offloaded MPF assets

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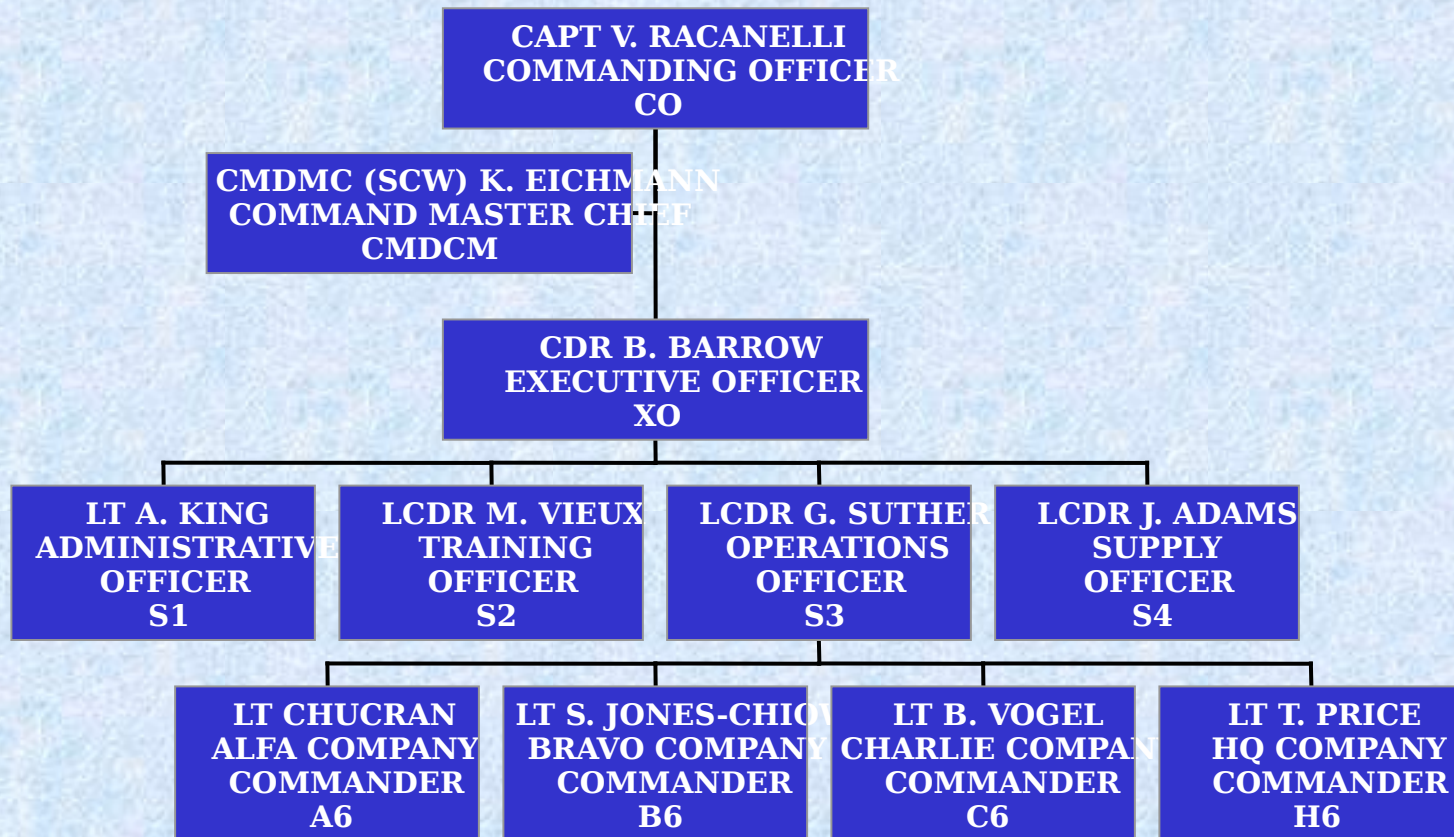
# Organization Chain of Command



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# AMPHIBIOUS CONSTRUCTION BATTALION ONE



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# Organization Mission By Company

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- Headquarters: Admin, Logistics, Training
- Alfa:
  - Elevated Causeway (ELCAS)
  - Transportation
  - Beach Party Team Support
- Bravo
  - Barge Ferry
  - Roll-on Roll-Off Discharge Facility (RRDF)
  - Offshore Petroleum Discharge System (OPDS)
  - Amphibious Bulk Liquid Transfer System (ABLTS)
  - Amphibious Assault Bulk Fuel/Water System (AABF/WS)
- Charlie:
  - Camp Support
  - Causeway Section Maintenance

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# Organization Total Personnel

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- 1717 total billets
  - Active Duty Component: 458
    - Sea Duty: 406
    - Shore Duty: 52
  - Reserve Component: 1259
    - Funded: 856
    - Filled: 544
    - Unfunded: 403

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# Organization

## Active Duty By Company

Headquarters:  
135

Alfa: 130

Bravo: 152

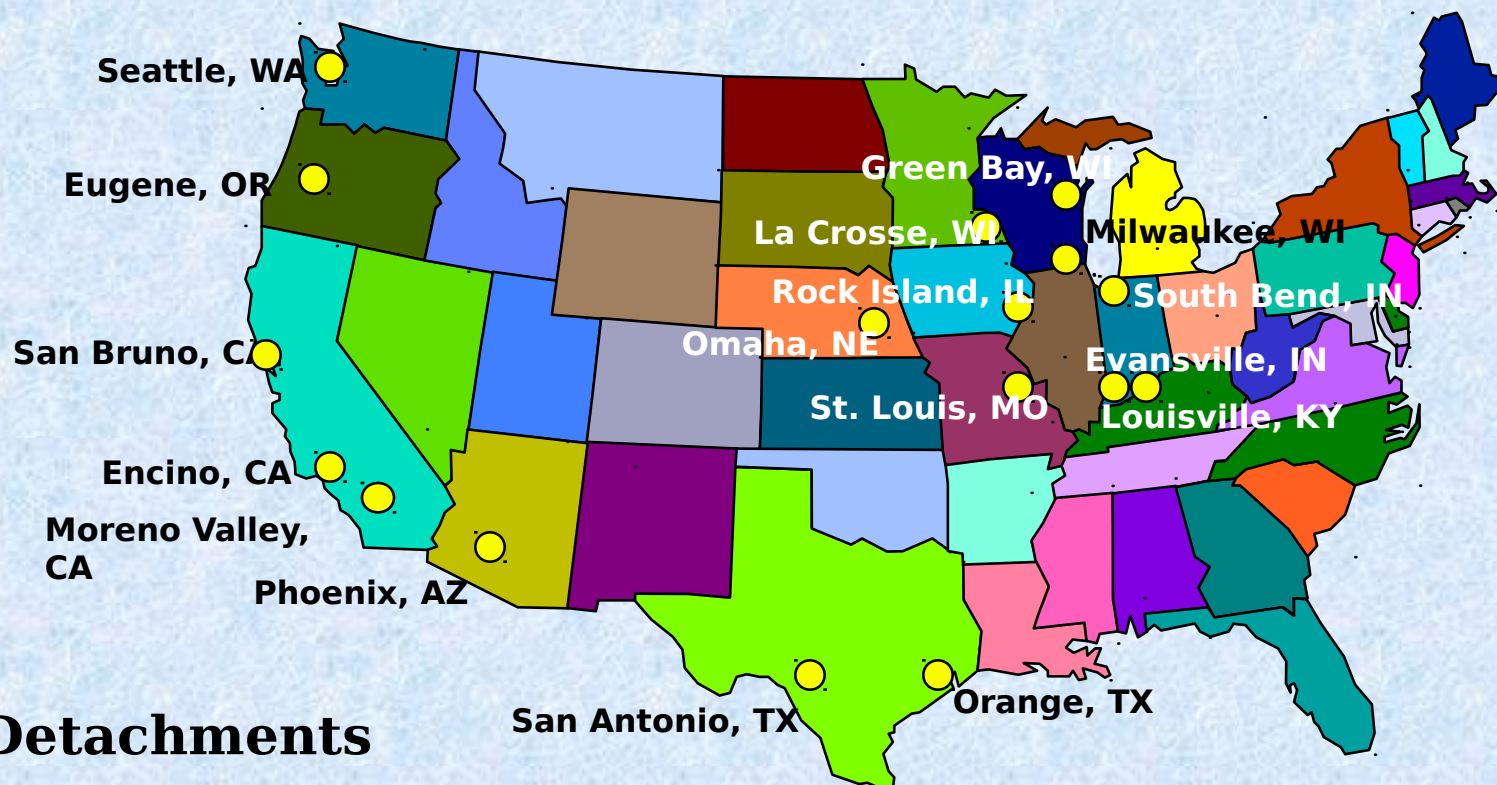
Charlie:  
75

TOTAL: 492

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# Organization Reserve Detachments



**17 Detachments**

**Located throughout  
USA**





# Missions and Capabilities Overview

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# Missions

- Assault Echelon (AE)
- Maritime Prepositioning Force (MPF)
- Assault Follow-On Echelon (AFOE) and Joint Logistics Over the Shore (JLOTS)



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# Assault Echelon (AE) Functions / Platforms



- Beach Salvage Ops
- Amphibious Bulk Liquid Transfer System (ABLTS)



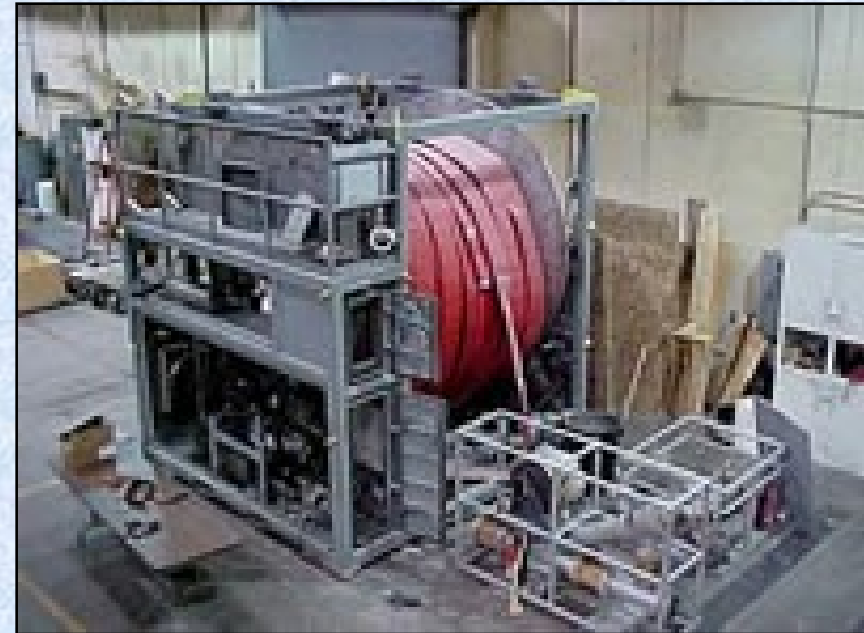
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# Amphibious Bulk Liquid Transfer System (ABLTS)

- Fuel: 2 Hose Reels 5,000 ft. each of 6 inch fuel hose
- Water: 1 Hose Reel 10,000 ft. of 4 inch water hose
- ISO container w/support equipment
- Diesel-Hydraulic Power Unit
- Beach Interface Unit
- Pig Launcher
- Bow Chute Assembly
- Deploy from Barge Ferry or LCU
- Install in 8 hours
- Max delivery 700 Kgal/day



*Replaces Amphibious  
Assault Bulk  
Fuel/Water System  
(AABF/WS)*

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# Amphibious Assault Bulk Fuel/Water System (AABF/WS)

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- All MPSRON ships expected have ABLTS by end of 2004
- 5,000 ft of 6 inch conduit (Fuel)
- 10,000 ft of 4 inch conduit (Water)
- Deploy from Barge Ferry or LCU
- Install in 8 hours
- Max delivery 700 Kgal/day



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# ABLTS - AABF/WS Comparison

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## CHARACTERISTICS

## AABF/WS

## ABLTS

### System Deployment

- 4-inch Water Subsystem
- 6-inch Fuel Subsystem

8 hours

8 hours

6 hrs 20 min

6 hrs 30 min

### System Retrieval

- 4-inch Water Subsystem
- 6-inch fuel Subsystem  
min

10 hours

10 hours

8 hrs 30 min

7 hrs 0

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# Maritime Prepositioning Force (MPF)

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# Maritime Prepositioning Force (MPF)

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- MPSRON Ships supporting ACB-1:
  - MPSRON TWO (Diego Garcia)
    - MV Button (Flag)
    - SS Kocak (Alt Flag)
    - MV Lopez
    - MV Phillips
    - USNS Stockham
  - MPSRON THREE (Guam)
    - MV Lummus (Flag)
    - SS Pless (Alt Flag)
    - MV Anderson
    - MV Bonnyman
    - MV Hauge
    - USNS Martin

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# MPF Functions / Platforms

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- Command and Control
- Beach Salvage
- Barge Ferry Ops
- Amphibious Bulk Liquid Transfer System (ABLTS)
- Roll-On/Roll-Off Discharge Facility (RRDF)
- Lighterage Repair
- 850 Personnel Camp

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# Roll-On/Roll-Off Discharge Facility (RRDF) (MPF/AFOE)

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In-Stream Offload of Rolling Stock

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# Functions / Platforms

## Assault Follow-On (AFOE)

## Joint Logistics Over-the-Shore (JLOTS)

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- Command and Control
- Beach Salvage
- Lighterage Repair
- Causeway Barge Ferries
- RRDF
- 1,200 Person Camp
- Offshore Petroleum Discharge System (OPDS)
- Elevated Causeway (ELCAS)
- Perimeter Defense
- 1,200 FT Admin Pier

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# Causeway Barge Ferry System (MPF/AFOE)



- **Side Loadable Warping Tug (SLWT)**
- **Causeway Section Powered (CSP)**
- **Causeway Section Non-Powered (CNSP)**







# Offshore Petroleum Discharge System (OPDS) (AFOE)

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- Single Product 4 NM
- Dual Product 2 NM
- 300K gal fuel in 48 hr
- 1.2 Mgal/day after  
7 days
- Water Depth 35-200 ft
- Service Life 2 yrs



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# Elevated Causeways (AFOE)

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- Two systems:
  - ELCAS (NL) Navy Lighterage
  - ELCAS (M) Modular
- ACB-1 currently has ELCAS(NL)
- ACB-2 currently has ELCAS(M)





# ELCAS (NL) (AFOE)



- Design length of 810
- Construction (20 Day)
  - Attach Causeways
  - Stab beach
  - Drive piles
  - Elevate pier
  - Lock to piles



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# ELCAS (M) (AFOE)



- Up to 3000 ft length
- 7 Days per 1000 ft to Erect
- Requires UCT Site Survey



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# Camp Support (MPF/AFOE)



- 850 or 1200 Personnel
- Berthing Tents
- Galley/Scullery
- Laundry
- Showers/Heads
- Transportation
- Beach Salvage
- Water Purification
- Medical/Admin



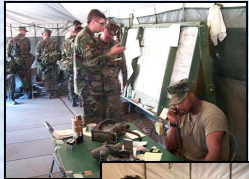
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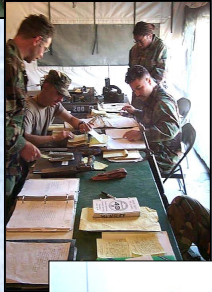


# Defensive Military

## Operations / Force Protection (AFOE)



- **Command, Control & Comm**



- **Contingency Planning**



- **Convoy OPS**



- **Defensive OPS**



- **Patrolling**



- **Barrier Plans**



- **Fire Support Coordination**



- **CSW Employment**



- **Chemical, Biological, Radiological**

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# Operational Schedule

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# Recent Operations

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- NATIVE ATLAS 02
  - ELCAS, OPDS, Barge Ferry Ops, 2500 personnel Camp
  - Objective: JLOTS exercise to demonstrate offload capabilities of critical warfighting equipment, sustainment, and supplies over-the-shore
  - Camp Pendleton
  - February/April 2002

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# Recent Operations

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- COBRA GOLD 02
  - Two MPF ship instream offload
  - April/May/June 2002

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# Operation Enduring Freedom



## Operation Iraqi Freedom

- Jan 03 – Current
- Offload Maritime Prepositioning Force
- Joint Logistics Over-The-Shore
- Elevated Causeway Modular
- 4,500 person Coalition Force Camp



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# Operation Enduring Freedom



## ~~Operation Iraqi Freedom~~

- Offload 10 Maritime Prepositioning Force ships
- 71 pieces of lighterage
- 113 Tactical convoys
- Over 200,000 assemblies
- 223 Pieces of rolling stock



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# Operation Enduring Freedom



## Operation Iraqi Freedom

- Joint Logistics Over-The-Shore
- Offloaded 4,600 containers
- Transferred 30,000 gal of fuel underway



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# Operation Enduring Freedom



## Operation Iraqi Freedom

- 1,400 ft Elevated Causeway Modular
- Joint Construction by ACB-2 and ACB-1
- Moved over 1500 containers



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# Operation Enduring Freedom



## Operation Iraqi Freedom

- Constructed 4,500 person camp
- Constructed 6 expeditionary helicopter landing pads and 2 hangars
- Constructed 50-cal. Range
- Self-sustaining galley serving 400,000 meals
- Design, installation, and sustainment of 400KW electrical distribution system
- Tents for MWR, Internet, Barber Shop, Post Office







# Amphibious Construction Battalion



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Chain***